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Certificate No.: T- 4358

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2017-05-06-02 **Date: 10-05-2017**
Customer : Assistant Executive Engineer, Yelahanaka Sub Division, BBMP, Bangalore.
Address : Yelahanaka Sub Division, BBMP, Bangalore.
Project Name : Construction of RCC drains at Railway Station and CC road at Gandhinagara 1st main, 2nd cross in ward no.01 of Yelahanka Sub Division.
Agency : Sri.G.Kishore Naidu, No:No:81, SHI-C, 8th Cross, 5th Phase, Yelahanka, Bangalore.
Customer's Reference : EE(YNK.D)E-PMT-08/W.O/35/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 06-05-17
Sample ID No : 2017-05-06-02-01
Sample Type : ACC 53 grade
Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test : 08-05-2017 to 09-05-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.15	–
2	Finess by Air permeablity method (m^2/kg, Min)	288	225m^2/kg, Min
3	Density (gm/cc)	3.22	–
4	Standard Consistency (%)	29.0%	Not specified
5	Initial Setting time	165 minutes	Not less than 30 minutes
6	Final Setting time	240 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

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Prepared by
Harshitha

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FOR CIVIL Pro.
R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Certificate No.: T- 4358

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-05-06-02** **Date: 05-06-2017**
Customer	:	Assistant Executive Engineer, Yelahanaka Sub Division, BBMP, Bangalore.
Address	:	Yelahanaka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drains at Railway Station and CC road at Gandhinagara 1st main, 2nd cross in ward no.01 of Yelahanka Sub Division.
Agency	:	Sri.G.Kishore Naidu, No:No:81, SHI-C, 8th Cross, 5th Phase, Yelahanka, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/35/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-05-17
Sample ID No	:	2017-05-06-02-01
Sample Type	:	ACC 53 grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	08-05-2017 to 05-06-2017

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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Certificate No.: T- 4358

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-06-02** **Date: 10-05-2017**
Customer	:	Assistant Executive Engineer, Yelahanaka Sub Division, BBMP, Bangalore.
Address	:	Yelahanaka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drains at Railway Station and CC road at Gandhinagara 1st main, 2nd cross in ward no.01 of Yelahanka Sub Division.
Agency	:	Sri.G.Kishore Naidu, No:No:81, SHI-C, 8th Cross, 5th Phase, Yelahanka, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-08/W.O/35/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-05-17
Sample ID No	:	2017-05-06-02-02(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	06-05-2017 to 10-05-2017

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	250	250	5.0	95.0	90-100
3	10 mm	2292	2542	50.8	49.2	25-55
4	4.75 mm	2306	4848	97.0	3.0	0-10
5	Pan	152	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2017-05-06-02 **Date: 10-05-2017**

Sample ID No : 2017-05-06-02-02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.7	
3	Specific Gravity	2.67	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.59	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.5	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.4	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Quality Manager

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Certificate No.: T- 4358

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-06-02** **Date: 10-05-2017**
Customer	:	Assistant Executive Engineer, Yelahanaka Sub Division, BBMP, Bangalore.
Address	:	Yelahanaka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drains at Railway Station and CC road at Gandhinagara 1st main, 2nd cross in ward no.01 of Yelahanka Sub Division.
Agency	:	Sri.G.Kishore Naidu, No:No:81, SHI-C, 8th Cross, 5th Phase, Yelahanka, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/35/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	06-05-17
Sample ID No	:	2017-05-06-02-02(b)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	06-05-2017 to 10-05-2017

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	450	450	3.0	97.0	90-100
3	20 mm	4788	5238	34.9	65.1	30-70
4	10 mm	5200	10438	69.6	30.4	10-35
5	4.75 mm	4290	14728	98.2	1.8	0-5
6	Pan	272	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-05-06-02** **Date: 10-05-2017**

Sample ID No : 2017-05-06-02-02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.3	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.54	–
6	Water Absorption(%)	0.25	–

Note:

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Quality Manager

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Certificate No.: T- 4358

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-05-06-02**
Customer	:	Assistant Executive Engineer, Yelahanaka Sub Division, BBMP, Bangalore. **Date: 10-05-17**
Address	:	Yelahanaka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drains at Railway Station and CC road at Gandhinagara 1st main, 2nd cross in ward no.01 of Yelahanka Sub Division.
Agency	:	Sri.G.Kishore Naidu, No:No:81, SHI-C, 8th Cross, 5th Phase, Yelahanka, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/35/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-05-17
Sample ID No	:	2017-05-06-02-03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	06-05-2017 to 10-05-2017
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	90	90	9	91.0	90-100	90-100	90-100	95-100
3	2.36 mm	120	210	21	79.0	60-95	75-100	85-100	95-100
4	1.18 mm	208	418	41.8	58.2	30-70	55-90	75-100	90-100
5	600 micron	216	634	63.4	36.6	15-34	35-59	60-79	80-100
6	300 micron	160	794	79.4	20.6	5-20	8-30	12-40	15-50
7	150 micron	175	969	96.9	3.1	0-10	0-10	0-10	0-15
8	Pan	31	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2017-05-06-02

Sample ID No : 2017-05-06-02-03

Date: 10-05-17

PHYSICAL PROPERTIES

SLno	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.15	–
2	Specific Gravity	2.58	–
3	Material finer than 75 micron	2.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-05-06-02** **Date: 10-05-17**
Customer	:	Assistant Executive Engineer, Yelahanaka Sub Division, BBMP, Bangalore.
Address	:	Yelahanaka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drains at Railway Station and CC road at Gandhinagara 1st main, 2nd cross in ward no.01 of Yelahanka Sub Division.
Agency	:	Sri.G.Kishore Naidu, No:No:81, SHI-C, 8th Cross, 5th Phase, Yelahanka, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/35/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-05-17
Sample ID No	:	2017-05-06-02-03
Sample Type	:	Sunvik Fe 500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	08-05-17

SLNo	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Sunvik Fe 500	Fe500	10mm	0.612	553	675	21.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Sunvik Fe 500	Fe500	10mm	Satisfactory	Satisfactory

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TEST RESULTS OF STEEL

Lab ID	:	CP-2017-05-06-02
Customer	:	Assistant Executive Engineer, Yelahanaka Sub Division, BBMP, Bangalore.
Address	:	Yelahanaka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drains at Railway Station and CC road at Gandhinagara 1st main, 2nd cross in ward no.01 of Yelahanka Sub Division.
Agency	:	Sri.G.Kishore Naidu, No:No:81, SHI-C, 8th Cross, 5th Phase, Yelahanka, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/35/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-05-17
Sample ID No	:	2017-05-06-02-04
Sample Type	:	Sunvik Fe 500
Reference to BIS codes	:	IS 1786-2008
Date of test:	:	08-05-17

Date: 10-05-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample (kg/m)	Yield stress (N/mm^2)	Tensile strength (N/mm^2)	Elongation (%)
1	Sunvik Fe 500	Fe500	12mm	0.882	570	685	20.0%

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Bend test	Rebend test
1	Sunvik Fe 500	Fe500	12mm	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	CP-2017-05-06-02
Customer	:	Assistant Executive Engineer, Yelahanaka Sub Division, BBMP, Bangalore. **Date: 10-05-17**
Address	:	Yelahanaka Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RCC drains at Railway Station and CC road at Gandhinagara 1st main, 2nd cross in ward no.01 of Yelahanka Sub Division.
Agency	:	Sri.G.Kishore Naidu, No:No:81, SHI-C, 8th Cross, 5th Phase, Yelahanka, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-08/W.O/35/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-05-17
Sample ID No	:	2017-05-06-02-05
Sample Type /Size	:	Precast Cover Slab
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	06/05/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.08	100.45	1.116	4426	79.9	18.1	16.8	21.0
2	Cover Slab-2	75.05	100.50	1.122	4423	81.3	18.4	17.1	21.4
3	Cover Slab-3	75.07	100.49	1.118	4425	80.5	18.2	16.9	21.1

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Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-05-16-02

Date: 19-05-17

Customer : Assistant Executive Engineer, Yelahanaka Sub Division, BBMP, Bangalore.

Address : Yelahanaka Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC drains at Railway Station and CC road at Gandhinagara 1st main, 2nd cross in ward no.01 of Yelahanka Sub Division.

Agency : Sri.G.Kishore Naidu, No:No:81, SHI-C, 8th Cross, 5th Phase, Yelahanka, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-08/W.O/35/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-05-17

Sample ID No : 2017-05-16-02-01

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/05/2017

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	12/05/2017	19/05/2017	150.20 X 150.24 X 150.25	22566	8.340	394.9	17.5	17.9
2	Drain Concrete	M20	12/05/2017	19/05/2017	150.28 X 150.26 X 150.12	22581	8.280	404.2	17.9	
3	Drain Concrete	M20	12/05/2017	19/05/2017	150.16 X 150.19 X 150.22	22553	8.390	412.7	18.3	

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Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: T- 4358

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-05-16-02

Customer : Assistant Executive Engineer, Yelahanaka Sub Division, BBMP, Bangalore. **Date: 09-06-17**

Address : Yelahanaka Sub Division, BBMP, Bangalore.

Project Name : Construction of RCC drains at Railway Station and CC road at Gandhinagara 1st main, 2nd cross in ward no.01 of Yelahanka Sub Division.

Agency : Sri.G.Kishore Naidu, No:No:81, SHI-C, 8th Cross, 5th Phase, Yelahanka, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-08/W.O/35/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-05-17

Sample ID No : 2017-05-16-02-02

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/06/2017

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	12/05/2017	09/06/2017	150.19 X 150.16 X 150.16	22553	8.450	532.2	23.6	23.5
2	Drain Concrete	M20	12/05/2017	09/06/2017	150.20 X 150.22 X 150.27	22563	8.320	521.2	23.1	
3	Drain Concrete	M20	12/05/2017	09/06/2017	150.34 X 150.18 X 150.24	22578	8.442	535.1	23.7	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harsitha

FOR CIVIL Pro.
CIVIL Pro Sig..... Date..... BANGALORE
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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